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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/075,927	02/13/2002	George Ch Fung	0275S-000489/COA	2757		
27572	7590 12/24/2003		EXAM	EXAMINER		
•	DICKEY & PIERCE,	FULTON, CHR	FULTON, CHRISTOPHER W			
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER		
	•		2859			
			DATE MAILED: 12/24/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)	1.1			
					V			
	Office Action Summary	10/075,9		FUNG ET AL.				
omoc Aouton Gummary		Examine		Art Unit				
	The MAILING DATE of this communication a		er W. Fulton	2859	ldrass			
Period fe		ipp <del>e</del> ars on the	, cover sneet with the	correspondence ad	iui <del>6</del> 33			
THE - Extended - aftended - if NO - Fail - Any	HORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR or SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a result of the period for reply is specified above, the maximum statutory period period for reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mained patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no every within the stated will apply and within the app	ent, however, may a reply be to tutory minimum of thirty (30) da ill expire SIX (6) MONTHS fror dication to become ABANDON	imely filed ays will be considered timel m the mailing date of this c IED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 24	October 200	<u>13</u> .					
2a)⊠	↑ This action is <b>FINAL</b> . 2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	tion of Claims							
4)🛛	Claim(s) <u>1-31</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🖂	Claim(s) <u>28-31</u> is/are allowed.							
6)⊠	Claim(s) <u>1,6-12,17-23,25 and 27</u> is/are rejected.							
7)🖂	☐ Claim(s) <u>2-5,13-16,24 and 26</u> is/are objected to.							
8)[	Claim(s) are subject to restriction and	l/or election r	equirement.					
Applicat	tion Papers							
9)[	The specification is objected to by the Exami	ner.						
10)⊠	The drawing(s) filed on 13 February 2002 is/s	are: a)⊠ ac	cepted or b)□ object	ed to by the Exami	ner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the corre	ection is requir	ed if the drawing(s) is o	bjected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to by the	Examiner. No	ote the attached Offic	e Action or form P	ΓΟ-152.			
Priority	under 35 U.S.C. §§ 119 and 120							
* 13)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the propaplication from the International Bure See the attached detailed Office action for a line Acknowledgment is made of a claim for dome since a specific reference was included in the 37 CFR 1.78.  a) The translation of the foreign language packnowledgment is made of a claim for dome reference was included in the first sentence of	ents have beents have beents have been in the control of the certical priority under the certical provisional apestic priority under the certical provisional apestic priority under the certical provisional apestic priority under the certical priority und	en received. en received in Applica ents have been receiv le 17.2(a)). ified copies not receiv nder 35 U.S.C. § 119 e of the specification of oplication has been re- inder 35 U.S.C. §§ 12	etion No  Ived in this National ved.  Ived (e) (to a provisional or in an Application eceived.  Ived (e) and/or 121 since	I application) Data Sheet. a specific			
Attachme								
2) Noti	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s	·)	4) Interview Summar 5) Notice of Informal 6) Other:					

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#### DETAILED ACTION

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1, 6, 7, 9, 11, 12, 17, 18, 20, 22, 23, 25, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rosa et al in view of Tanaka et al.

The device as claimed is substantially disclosed by Rosa et al with an electronic pendulum type level indicating system for a drill having a separate switch, but lack a rotating disk with an aperture to transmit light when the device is level. Tanaka et al teaches using a rotating member with an aperture to transmit light to indicate the levelness of a device. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a

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rotating device with an aperture to transmit light to indicate levelness in Rosa et al as taught by Tanaka et al as an alternative levelness device.

4. Claims 8, 10, 19, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rosa et al in view of Tanaka et al as applied to claims 1, 6, 7, 9, 11, 12, 17, 18, 20, 22, 23, 25, and 27 above, and further in view of official notice.

The device as claimed is disclosed by the combination of Rosa et al and Tanaka et al together as stated in the rejection recited above for claims 1, 6, 7, 9, 11, 12, 17, 18, 20, 22, 23, 25, and 27, but lack a refracting lens between the rotating member and the light receiving member and a fiber optic system to refract the beam. Official notice is taken that in the light emitting and receiving art lenses and fiber optic systems are old and well known for refracting light to focus the light better on the light receiving member. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use lenses or fiber optic systems in the combination of Rosa et al and Tanaka et al as is old and well known to focus the light to the light receiver.

#### Response to Arguments

5. Applicant's arguments filed October 24, 2003 have been fully considered but they are not persuasive. The argument that the Rosa et al and Tanaka et al cannot be combined to produce the claimed invention because the Rosa et al reference includes oil which would not be combinable with the inclinometer of Tanaka et al and the Tanaka et al reference includes a inclinometer which indicates degrees of levelness or inclination and not a single indication of levelness is not persuasive. The teaching of Tanaka et al is to use an optics based inclinometer

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with a pendulum having an aperture for a clean efficient method of indicating the inclination of a device therefore based on this teaching one of ordinary skill in the art would replace the entire pendulum system including the oil of Rosa et al with the optics based system of Tanaka et al as a cleaner system that does not require oil. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

### Allowable Subject Matter

- 6. Claims 28-31 are allowed.
- 7. Claims 2-5, 13-16, 24, and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher W. Fulton whose telephone number is (703) 308-3389. The examiner can normally be reached on M,T,Th,F 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F.F. Gutierrez can be reached on (703) 308-3875. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Christopher W. Fulton Primary Examiner

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**CWF** 

December 18, 2003